

# Wiemann Farm

Locke, NY



## THE BACKGROUND

An on-site or small wind power energy system can provide consumers in windy locations with a cushion against electric power price increases. Wind energy systems not only help customers reduce their electricity purchases from utilities, they also help reduce U.S. dependence on fossil fuels, and they are nonpolluting. Cash incentives for installing wind energy are available in New York and vary **between 15-70%** depending on the installation.

## THE STORY

**The Wiemann Farm, located in the Finger Lakes region of Upstate New York, is using wind power on its 134-acre property.** Good planning, like informing its neighbors of the upcoming project, smoothed the way for the Weimann's wind system to find a home on this working farm. "We learned some valuable lessons with this project," said Dave Wiemann.

**"Providing as much information about the project as possible, including photographs and locations of currently installed small turbines, is helpful and gives the community a sense of what's happening elsewhere. It helps allay any fears or concerns they may have."** The installation for the Wiemann Farm turbine took about two and one-half days to complete, thanks to favorable weather and soil conditions.

**For more information on wind incentives log on to [www.PowerNaturally.org](http://www.PowerNaturally.org) or call 1-866-NYSERDA**

# Thanks to the NYSERDA Small Wind Program, places like Wiemann Farm can install affordable small wind systems. It's part of NYSERDA's commitment to help make New York State energy efficient now and into the future.

## THE TEAM

- **NYSERDA:** Funding and coordination of the On-Site Small Wind Incentive Program for New York State.
- **AWS Scientific:** Coordinated the design, site assessment, installation and interconnection, hired the local subcontractors, and conducted the State Environmental Quality Review (SEQR). Working closely with NYSERDA, the team they led was able to complete the job within six months from the initial site visit to final approvals, installation and interconnection.

## THE SYSTEM

The Wiemann Farm wind turbine, located in Locke, NY, is a 10 kW Bergey Excel-S mounted on a 100 foot guyed lattice tower. The average annual wind resource at this site, as projected by the New York State Wind Map, is about 5.6 m/s (12.5 mph). The installed cost of this system was approximately \$50,000, and the NYSERDA incentive was \$30,000.

## THE SAVINGS

The estimated annual output of the Wiemann Farm wind energy system is

**12,000**

**kWh.** A typical home in New York State uses about **6,000 kWh** of electricity annually.

